The following Matlab functions were taken from Queen Mary University of London, Center of Digital Music website [1] : (<http://c4dm.eecs.qmul.ac.uk/audioengineering/compressors/index.html>)

and modified according to the needs:

* AnalogPeakDetector.m (original file: PDanalog.m)
* BranchingPeakDetector.m (original file: PDbranching.m)
* BranchingSmoothPeakDetector.m (original file: PDbranchingsmooth.m)
* DecoupledPeakDetector.m (original file: PDdecoupled.m)
* DecoupledSmoothPeakDetector.m (original file: PDdecoupledsmooth.m)

**References:**

1. Giannoulis, Dimitrios & Massberg, Michael & Reiss, Joshua. (2012). Digital Dynamic Range Compressor Design—A Tutorial and Analysis. AES: Journal of the Audio Engineering Society. 60.